**IT Applications, Unit 4**

**Ch 6, Developing a solution using spreadsheet software, p 192-195**

Case Study: Point Pleasant Social Service Program – organisational outline and current practice

Read the case study:

1 Complete the think about IT, 6-3 activity:

1. Which current practices at Point Pleasant High School have led to inaccurate information?

Multiple practices are effectively creating inaccurate information these include; manual calculations, improper storage of data till entered, confusion due to number of piles (especially if it goes all the way to ‘R’ in one form), (potentially correct amount being record on receipt if not checked by front office staff) to name but a few.

1. What types of validation errors might occur using the current information processing methods?

Analysing the problem

1. in the analysis stage there are three parts, elaborate under each of the following:
   1. define the problem

defining the problem involves determining the problem that exists finding the requirements of the solution and stating it in a clear and concise way.

* 1. solution requirements
     1. what is the difference between functional and non-functional attributes

functional attributes include anything that the solution should be able to do where as non-techniqual attributes refers to the elements required for example being user-friendly, reliable ect.

* 1. constraints
     1. list the constraints

the constraints are generally the things such as cost, speed of processing, user and legal requirements, security, compatibility, expertise level, capacity and equipment currently available. Hence for this situation things such as cost, user and legal req’s and recyclability of current equipment will play the main roles.

* 1. scope of solution
     1. Describe the scope or the extent of the solution.

The scope of the solution generally would primarily focus around what the solution can and can’t do in a efficient and effective manner while still fitting the requirements of the end solution. For example the solution for this example should be able to save time in data entry hence lowering cost and effort required to complete the task. This may be achieved via the use of macros, formulas and other common methods of improving accuracy while lowering time and effort.

Additionally the solution should be considered as able to assist in producing something deemed ‘complete’ and ‘accurate’ via the implication of existence checks and range/data type validation.